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MCLEAN, VIRGINIA

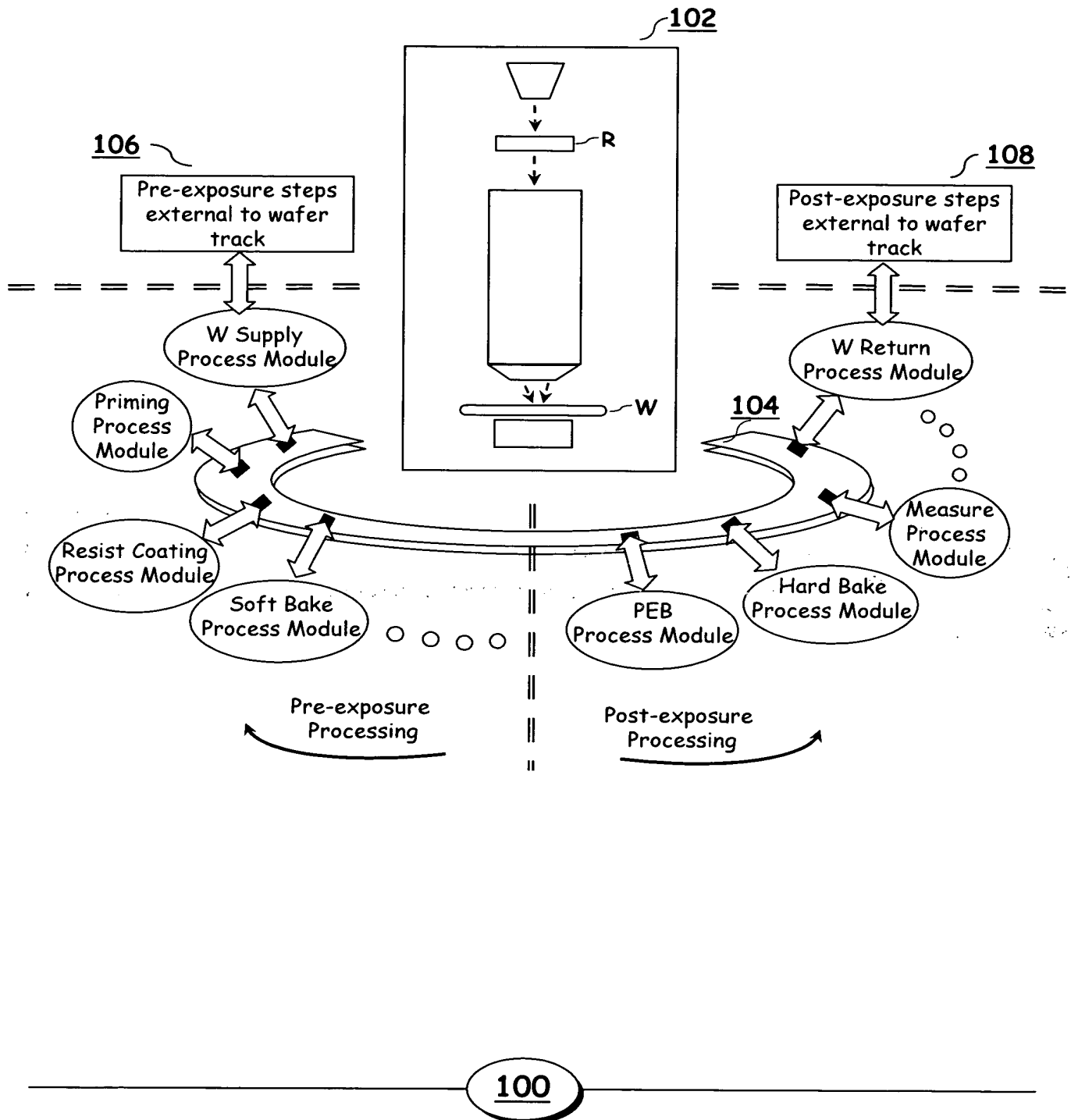
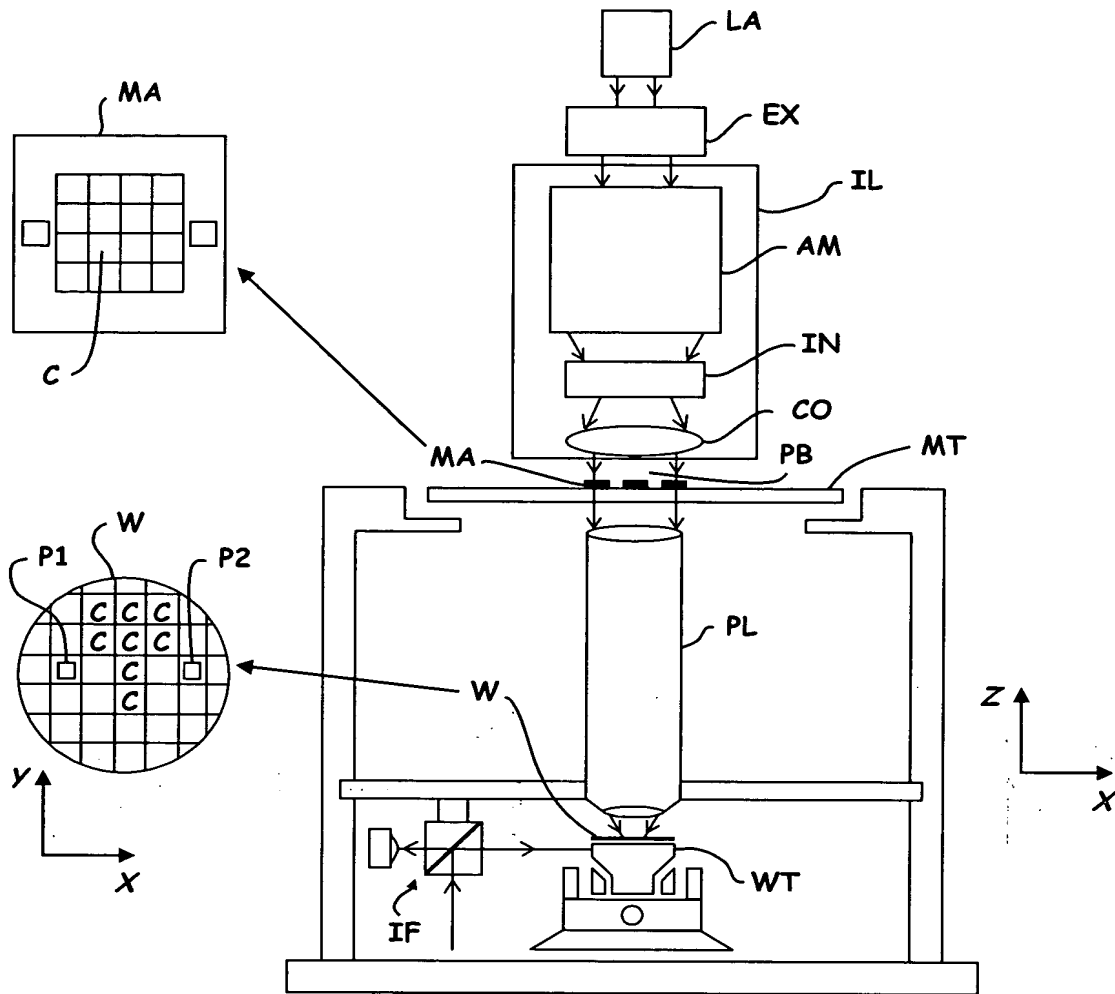


FIG. 1A

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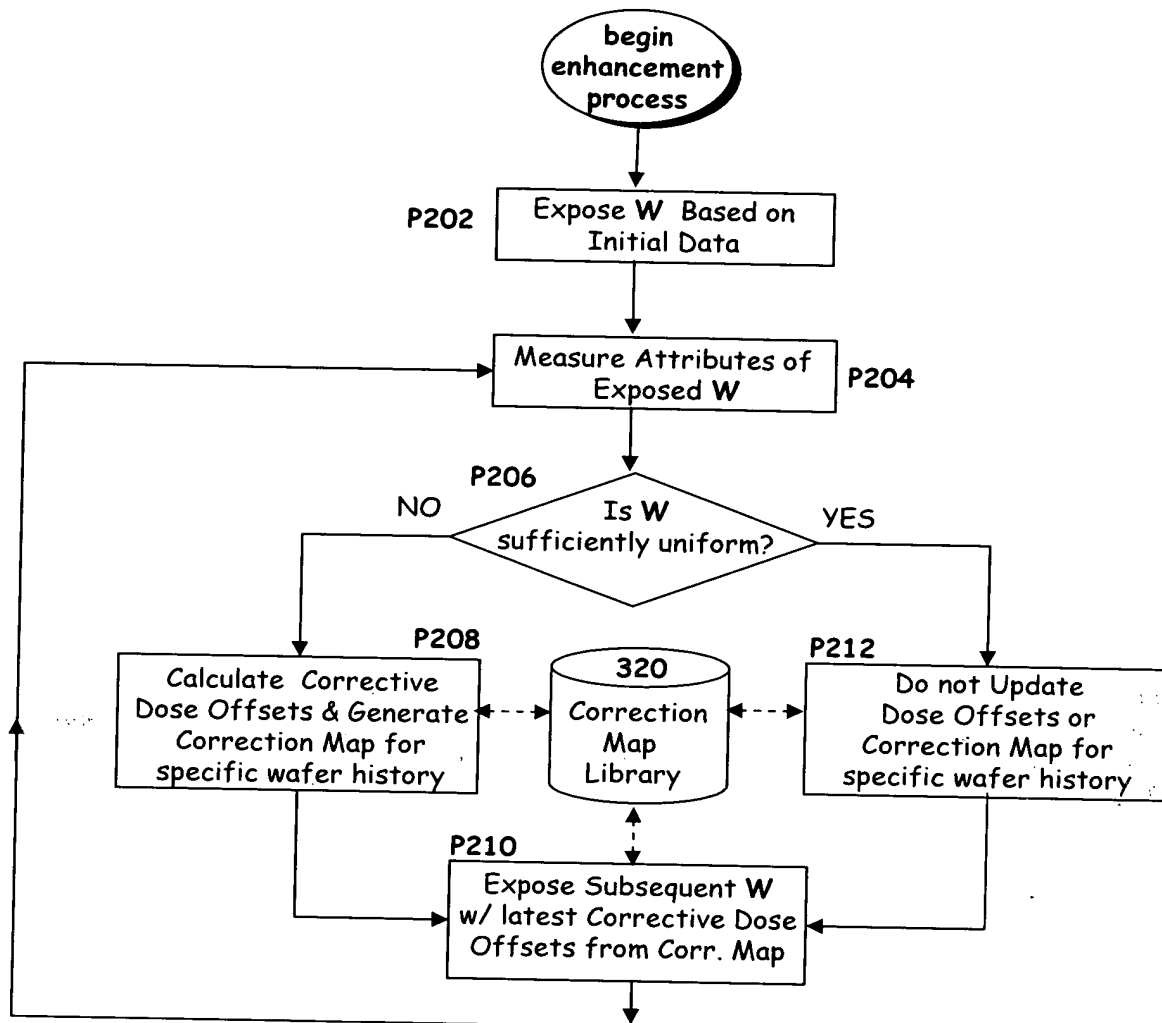
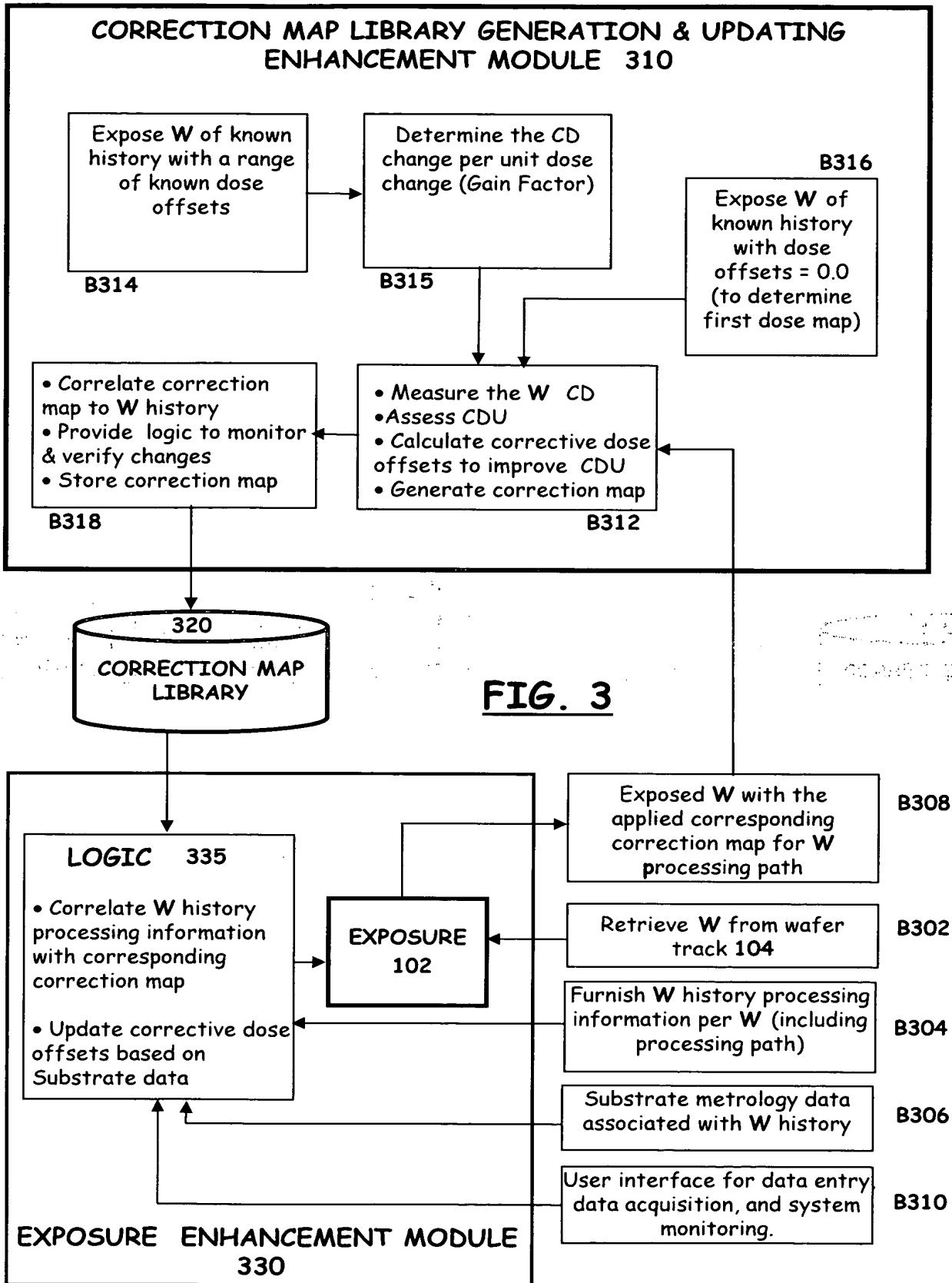


FIG. 2



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Examples Pre Exposure Substrate Metrology Data (B306)

Resist thickness

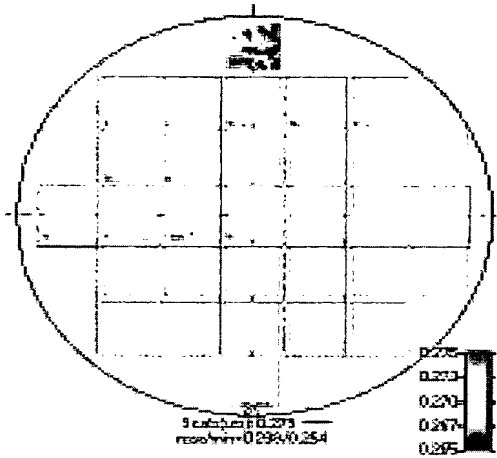


FIG. 4A

BARC Thickness

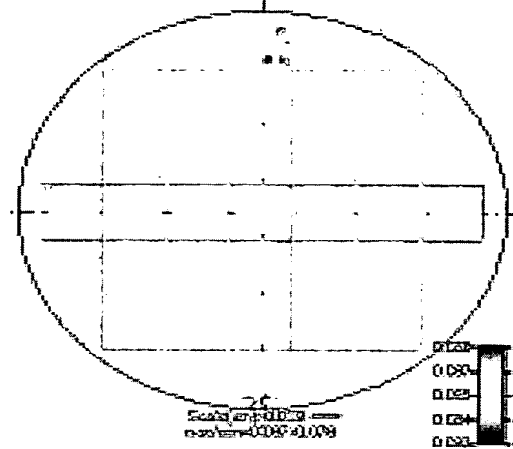


FIG. 4B

Example Wafer Dose Layout & Range (B314)

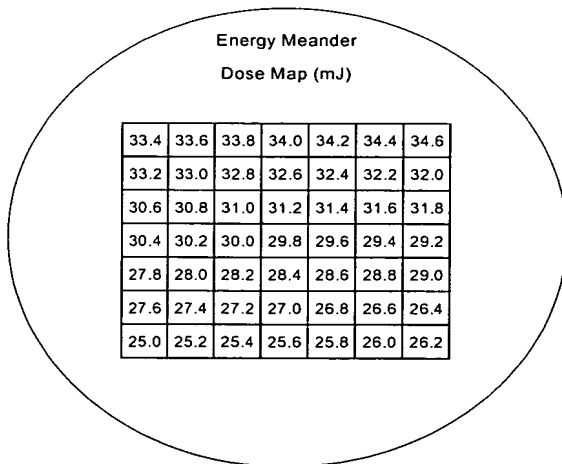


FIG. 4C

Example CD Change per Unit Dose (B315)

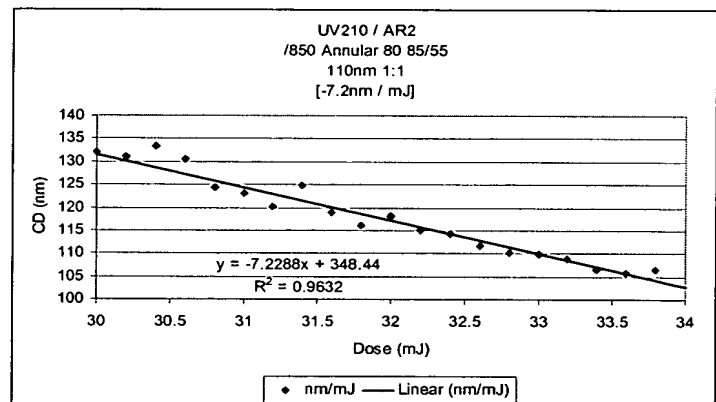


FIG. 4D

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Exempl Initial Dose Map
Dose Offset = 0 (B316)

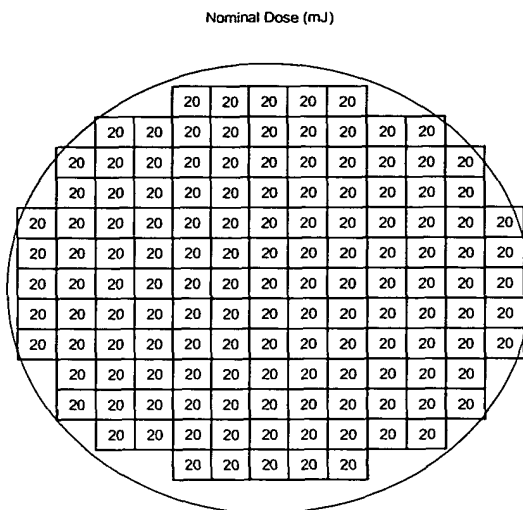


FIG. 4E

Exempl CD Results:
with Dose Offset = 0 (B312)

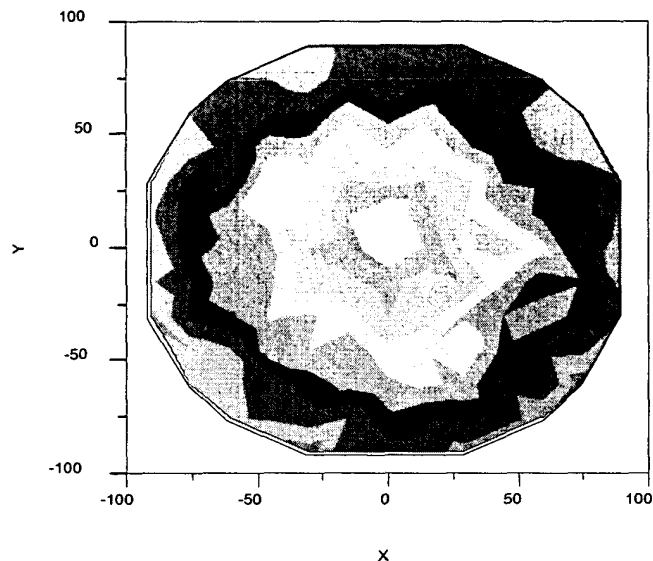


FIG. 4F

Example Wafer Dose
Layout with Dose Offset (B308)

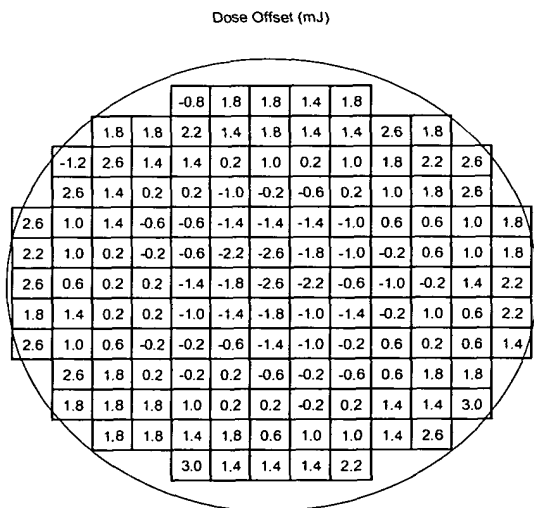


FIG. 4G

Example CD Results:
with Applied Dose Offset (B312)

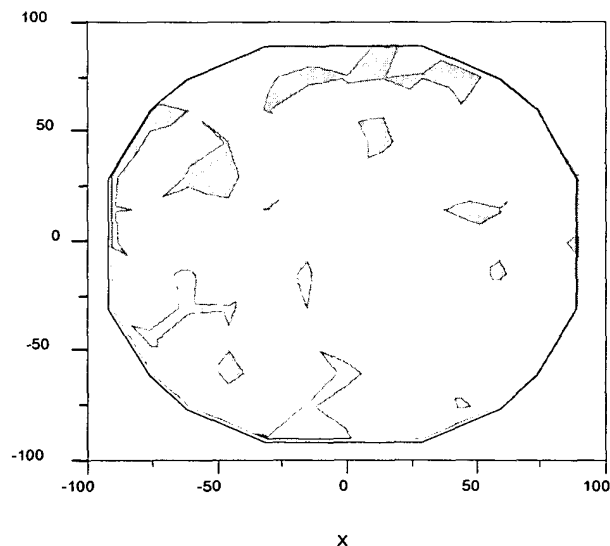


FIG. 4H